

PROCEEDINGS  
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BIOLOGICAL SOCIETY OF WASHINGTON

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NOMENCLATORIAL STUDIES IN THREE ORCHID  
GENERA.\*

BY A. A. EATON.

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During the course of nomenclatorial studies in the Orchidaceæ I have found the following changes necessary in order to conform with the articles of the Vienna Code. These changes will be more fully discussed and a full bibliography given, with synonymy and keys to the genera, in Orchidaceæ, fascicle 3, now ready for the press.

EPIPACTIS (Haller) Böhmer.

The name *Epipactis* appears to have been first used since 1753 by Böhmer in the third edition of Ludwig's *Definitiones Generum Plantarum*. Although he makes no binomial combination, his genus is properly made and he gives several references to the plant designated by Linnaeus as *Satyrium repens*, now known as *Goodyera repens* R. Br., or *Peranium repens* Salisb. As the name *Epipactis* antedates all others for the group it must be adopted. The resulting changes in specific names are as follows:

**E. angustifolia** (Schlechter).

*Goodyera angustifolia* Schlechter in Schumann & Lauterbach Nachtr. Fl. Südsee 92 (1905).

**E. bifida** (Bl.).

*Neottia bifida* Blume Bijdr. 408 (1825).—*Goodyera bifida* Blume Fl. Java Orch. 33, t. 9 | c, f. 1 (1858).

**E. biflora** (Hook. f.).

*Goodyera biflora* Hooker f. Fl. Brit. Ind. 6: 114 (1890).

**E. brachiorrhynchos** (Schlechter).

*Goodyera brachiorrhynchos* Schlechter in Schumann & Lauterbach Nachtr. Fl. Südsee 93 (1905).

**E. colorata** (Bl.).

*Neottia colorata* Blume Bijdr. 409 (1825).—*Goodyera colorata* Blume Fl. Java Orch. 31 t. 9 | b, f. 2 (1858).

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\* Contributions from the Ames Botanical Laboratory, No. 8.

**E. cordata** (Lindl.).

*Georchis cordata* Lindley Gen. et Sp. Orch. 496 (1840).—*Goodyera cordata* Nicholson Diet. Gard. **2**: 810 (1888).

**E. discoidea** (Reichb. f.).

*Rhamphidia discoidea* Reichb. f. in Linnaea **41**: 59 (1876).—*Goodyera discoidea* Schlechter in Schumann & Lauterbach Nachtr. Fl. Südsee 94 (1905) in obs.

**E. Erimae** (Schlechter).

*Goodyera Erimae* Schlechter in Schumann & Lauterbach Nachtr. Fl. Südsee 93 (1905).

**E. foliosa** (Lindl.).

*Georchis foliosa* Lindley Gen. et Sp. Orch. 496 (1840).—*Goodyera foliosa* Benth. ex Hooker f. Fl. Brit. Ind. **6**: 113 (1890).

**E. formosana** (Rolfe).

*Goodyera formosana* Rolfe ex Hemsley in Ann. Bot. **9**: 159 (1895).

**E. fumata** (Thw.).

*Goodyera fumata* Thwaites Enum. Pl. Ceylon 314 (1861).

**E. fusca** (Lindl.).

*Goodyera fusca* Lindley in Wall. Cat. no. 7395 (1832).

**E. glauca** (J. J. Smi.).

*Goodyera glauca* J. J. Smith Nachtr. 1, Orch. Java in Bull. Dept. Agric. Ind. Néerl. no. 13, p. 17 (1907).

**E. gracilis** (Hook. f.).

*Goodyera gracilis* Hooker f. Fl. Brit. Ind. **6**: 112 (1890).

**E. grandiflora** (Schlechter).

*Goodyera grandiflora* Schlechter in Engl. Bot. Jahrb. **39**: 57 (1906).

**E. grandis** (King & Pantl.).

*Goodyera grandis* King & Pantling Orch. Sik.-Him. 284 t. 379 (1898).

**E. hacijoensis** (Yatabe).

*Goodyera hacijoensis* Yatabe in Tokyo Bot. Mag. **5**: 1, t. 19 (1891).

**E. Hemsleyana** (King & Pantl.).

*Goodyera Hemsleyana* King & Pantling in Journ. As. Soc. Beng. **64**: 342 (1895).

**E. Henryi** (Rolfe).

*Goodyera Henryi* Rolfe in Kew Bull. 1896, p. 201.

**E. hispida** (Lindl.).

*Goodyera hispida* Lindley in Journ. Linn. Soc. **1**: 183 (1857).

**E. lanceolata** (Ridl.).

*Goodyera lanceolata* Ridley in Journ. As. Soc. Straits Br. no. 39, p. 86 (1903).

**E. Lehmanniana** (Kränzl.).

*Goodyera Lehmanniana* Kränzlin in Engl. Bot. Jahrb. **26**: 498 (1899).

**E. macrantha** (Maxim.).

*Goodyera macrantha* Maxim. in Gartenflora **16**: 36, t. 533, f. 2 (1867).

**E. macrophylla** (Lowe).

*Goodyera macrophylla* Lowe Prim. Fl. Madeira 13, t. 1 (1831).

**E. Matsumurana** (Schlechter).

*Goodyera Matsumurana* Schlechter in Bull. Herb. Boiss. ser. 2, 6: 298 (1906).

**E. Maurevertii** (Bl.).

*Goodyera Maurevertii* Blume Fl. Java Orch. 35 (1858).

**E. nebularum** (Hance).

*Cystorchis nebularum* Hance in Journ. Bot. 21: 232 (1883).—*Goodyera nebulara* Rolfe in Journ. Linn. Soc. 36: 45 (1903).

**E. ochroleuca** (Bailey).

*Goodyera ochroleuca* Bailey in Bull. Dept. Ag. Queensl. 14: 15, t. 4 (1896).

**E. papuana** (Ridl.).

*Goodyera papuana* Ridley in Journ. Bot. 25: 355 (1886).

**E. parviflora** (Bl.).

*Neottia parviflora* Blume Bijdr. 408 (1825).—*Goodyera parviflora* Blume Fl. Java Orch. 29, t. 22, f. 1 (1858).

**E. pendula** (Maxim.).

*Goodyera pendula* Maxim. in Bull. Acad. St. Petersb. 32: 623 (1888).

**E. Polygonoides** (Mueller).

*Goodyera Polygonoides* Mueller Fragm. 8: 29 (1873).

**E. Prainii** (Hook. f.).

*Goodyera Prainii* Hooker f. Fl. Brit. Ind. 6: 112 (1890).

**E. procera** (Ker.).

*Neottia procera* Ker-Gawl in Bot. Reg. t. 639 (1822).—*Goodyera procera* Hooker Exot. Fl. 1: t. 39 (1823).

**E. pubescens** (Willd.).

*Neottia pubescens* Willd. Sp. Pl. 4: 76 (1805).—*Goodyera pubescens* R. Br. in Ait. Hort. Kew. ed. 2, 5: 198 (1813).

**E. pusilla** (Bl.).

*Goodyera pusilla* Blume Fl. Java Orch. 31, t. 9 | b, f. 3 (1858).

**E. recurva** (Lindl.).

*Goodyera recurva* Lindley in Journ. Linn. Soc. 1: 183 (1857).

**E. repens** var. **ophioides** (Fern.).

*Goodyera repens* var. *ophioides* Fernald in Rhodora 1: 6 (1899).

**E. reticulata** (Bl.).

*Neottia reticulata* Blume Bijdr. 409 (1825).—*Goodyera reticulata* Blume Fl. Java Orch. 30, t. 9 | b, f. 1 (1858).

**E. robusta** (Hook. f.).

*Goodyera robusta* Hooker f. Fl. Brit. Ind. 6: 113 (1890).

**E. rubicunda** (Bl.).

*Neottia rubicunda* Blume Bijdr. 408 (1825).—*Goodyera rubicunda* Lindley in Bot. Reg. 1839, Misc. p. 61.

**E. Schlechtendahliana** (Reichb. f.).*Goodyera Schlechtendahliana* Reichb. f. in *Linnaea* **22**: 861 (1849).**E. scripta** (Reichb. f.).*Rhamphidia scripta* Reichb. f. in *Linnaea* **41**: 67 (1877).—*Goodyera scripta* Schlechter in *Engl. Bot. Jahrb.* **39**: 58 (1906).**E. striata** (Reichb. f.).*Goodyera striata* Reichb. f. in *Linnaea* **18**: 409 (1844).**E. subregularis** (Reichb. f.).*Georchis subregularis* Reichb. f. in *Linnaea* **41**: 67 (1877).—*Goodyera subregularis* Schlechter in *Engl. Bot. Jahrb.* **39**: 58 (1906).**E. tessellata** (Loddl.).*Goodyera tessellata* Loddiges *Bot. Cab.* t. 952 (1827).**E. triandra** (Schlechter).*Goodyera triandra* Schlechter in *Bull. Herb. Boiss.* ser. 2, **6**: 298 (1906).**E. velutina** (Maxim.).*Goodyera velutina* Maxim. in *Gartenflora* **16**: 38, t. 533, f. 1 (1867).**E. viscosa** (Reichb. f.).*Goodyera viscosa* Reichb. f. in *Linnaea* **41**: 61 (1876).**E. vittata** (Lindl.).*Georchis vittata* Lindley in *Journ. Linn. Soc.* **1**: 184 (1857).—*Goodyera vittata* Benth. ex Hooker f. *Fl. Brit. Ind.* **6**: 113 (1890).**E. Waitziana** (Bl.).*Goodyera Waitziana* Blume *Fl. Java Orch.* 35, t. 9 | d, f. 2 (1858).

## SERAPIAS L.

The genus *Serapias* of Linnaeus is composite, consisting of *Cephalanthera*, *Epipactis* (Adanson em. R. Br., not Böhmer) and *Serapias* as restricted by Swartz. The first two genera have been segregated and the residue of the original genus now bears the name. It has been customary to leave to the final residue of segregation the original name, but this is contrary to Article 45 of the Vienna Code, provided the type or origin of the group is not contained therein. The type of the genus *Serapias* L. is *S. Helleborine*, an aggregate consisting of species of *Cephalanthera* and *Epipactis* Adans., genera shown by Wettstein to be inseparable. This type is fixed by Linnaeus in *Gen. Pl.* ed. 5 (1754) as t. 249 of Tournefort, which represents *S. grandiflora*. The name *Serapias* must therefore be restored to the *Cephalanthera-Epipactis* group. The following changes are necessary:

**S. africana** (Rendle).*Epipactis africana* Rendle in *Journ. Bot.* **33**: 252 (1895).**S. Austinae** (A. Gr.).*Chloraea Austinae* A. Gray in *Proc. Am. Acad.* **12**: 83 (1876).—*Cephalanthera Austinae* Heller *Cat. N. A. Pl.* ed. 2, 4 (1900).**S. Chloidophylla** (Reichb. f.).*Cephalanthera Chloidophylla* Reichb. f. in *Linnaea* **25**: 228 (1852).

**S. consimilis** (Don).

*Epipactis consimilis* Don Prodr. 28 (1825).

**S. cucullata** (Boiss. & Heldr.).

*Cephalanthera cucullata* Boiss. & Heldr. ex Reichb. f. Orch. Eur. 137, 185, t. 120 (1851).

**S. gigantea** (Dong.).

*Epipactis gigantea* Douglas ex Hooker Fl. Bor. Am. 2: 202, t. 202 (1839).

**S. kurdica** (Bornm.).

*Cephalanthera kurdica* Bornm. ex Kränzl. in Bull. Herb. Boiss. 3: 143 (1895).

**S. longibracteata** (Bl.).

*Cephalanthera longibracteata* Blume Fl. Java Orch. 159, t. 65, f. 3 (1858).

**S. sessilifolia** (Peterm.).

*Epipactis sessilifolia* Peterm. in Flora 27: 370 (1844).

**S. somaliensis** (Rolfe).

*Epipactis somaliensis* Rolfe in Dyer Fl. Trop. Afr. 7: 189 (1898).

SERAPIASTRUM Kuntze.

The genus heretofore known as *Serapias* must become *Serapiastrum*, with the following combinations:

**S. cordigerum** (L.).

*Serapias cordigera* L. Sp. Pl. ed. 2, 1345 (1763).

**S. Lingua** (L.).

*Serapias Lingua* L. Sp. Pl. ed. 1, 950 (1753).

**S. longipetalum** (Tenore).

*Helleborine longipetala* Tenore Fl. Neap. Prodr. 53 (1811).—*Serapias longipetala* Poll. Fl. Veron. 3: 30 (1814).

**S. neglectum** (De Not.).

*Serapias neglecta* De Notaris Rep. Fl. Ligust. 389 (1844).

**S. parviflorum** (Parl.).

*Serapias parviflora* Parl. in Giorn. Sci. Litt. Sicil. 59: 66 (1837).